

sample

kampus listed buildings

06 05 21

sample sign-off 09.01 • landscaping (little david street)**description:**

original cobbles to be lifted and replaced with reclaimed following discovery of contaminants during enabling works to Little David Street.

sample panel - reclaimed cobbles and buff grout mortar (Larsen Streetscape FJM Rapid). varying sizes to be grouped together.

proposals for little david street landscaping including cobble sample approved via 33p (CDN/19/0584) + listed building 6p (CDN/19/0583) sign-off on 06.05.21. refer to condition 5(CDN/18/0845 + CDN/19/0175) for site wide proposals.

location:

little david street only

image:

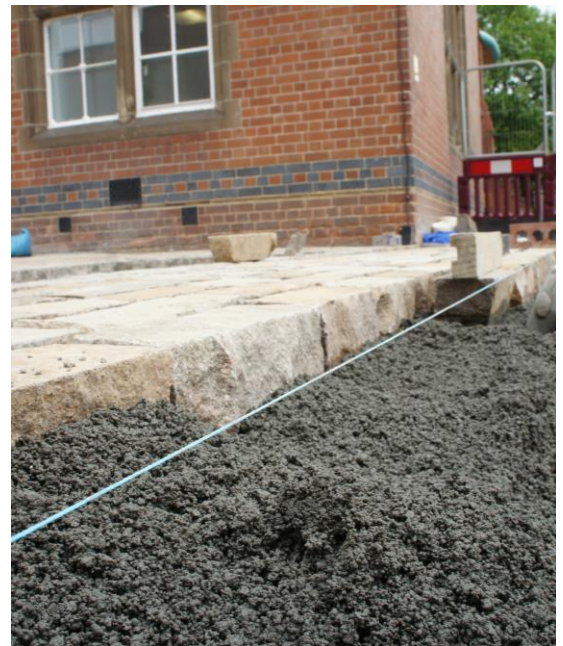
photograph of installed cobble/mortar sample on site

STREETSCAPE FBC



Larsen Streetscape FBC is a fine bedding concrete specifically designed to meet the recommended performance characteristics of BS7533. It is manufactured from a controlled blend of specially selected aggregates, cements, fibres and additives and only requires the addition of water to produce a high quality bedding layer for rigid construction methods. Streetscape FBC is ideal for the installation of natural stone setts and cobbles, flags, concrete and clay pavers.

>40MPa COMPRESSIVE STRENGTH
10 – 75mm BED DEPTH IN ONE PASS
LOW SHRINKAGE
FROST RESISTANT
VEHICLE TRAFFIC AFTER 24 HOURS
AVAILABLE IN BAG, BIG BAG OR SITE SILO
BS 7533



TECHNICAL INFORMATION

PRODUCT INFORMATION	
FORM	Granular
COLOUR	Grey
MAX AGGREGATE	6 mm
HAZARD INFORMATION:	Contains cement. Consult Safety Datasheet before use
CLEANING:	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set.
PACKAGING:	25 kg multilayer paper. 1.2MT Big Bag or Bulk Silo
STORAGE INSTRUCTIONS:	Store unopened containers in a dark, cool, dry location away from extremes of temperature
SHELF LIFE:	Minimum 6 months in unopened manufacturer's containers
APPLICATION INFORMATION	
WATER DEMAND	2 to 2.5L per 25kg
APPLICATION TEMPERATURE	+3°C to +30°C
WORKING TIME	Approx. 60 minutes
BED THICKNESS	10 - 75mm per pass
TIME TO TRAFFIC	Light Foot Traffic - after 12 hours Vehicle Traffic - after 1-2 days (depending on site conditions)
YIELD	Approximately 2000kg/m ³ (1m ³ is approximately 2150kg (mixed) or 1950kg (dry powder) 25kg bag = 27.5kg (mixed) = approximately 0.013m ³)
TYPICAL PERFORMANCE INFORMATION	
*Independent Third Party Test Results – reports available on request	
DRY HARDENED DENSITY	2100 - 2200kg/m ³
SHRINKAGE	0.02 – 0.04%
COMPRESSIVE STRENGTH	45 - 50 MPa
FLEXURAL STRENGTH	7 - 8 MPa
BOND STRENGTH	>2.0 MPa (with priming slurry)
MODULUS OF ELASTICITY	17000 - 18000 MPa

DIRECTIONS FOR USE

PREPARATION

The substrate (including sub-base and road base) should meet the requirements of the relevant part of BS7533 dependent on the type and level of traffic. All substrates must be suitable to receive the bedding as per current good working practices. All substrates for bonded constructions should be clean and thoroughly sound and free from oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion. They should be pre-soaked but free from standing water.

PRIMING

To improve bond it is recommended to apply Larsen Streetscape PS to the base immediately prior to laying the Streetscape FBC bedding layer. All paving units must be primed with Streetscape PS immediately prior to placing on the Streetscape FBC bedding layer. Consult Larsen Streetscape PS datasheet and the relevant part of BS7533 for further information.

MIXING

Add 8 - 10% water, i.e. 2.0 - 2.5L of water per 25kg bag to achieve the desired workability. Mix with a suitable mechanical mixer for a minimum of 3 minutes.

Please note Streetscape FBC is designed to be used 'semi dry'/moist consistency at the above water ratios. Should more water be added to achieve a more pliable workability, the hardened properties of the product will be reduced. If too little water is used the bedding will be too dry to bind together. Workability should be checked regularly using the 'snowball' test.

Do not try to remix or wet-up FBC which has 'gone off'.

APPLICATION

Streetscape FBC can be applied in a bed of 10 - 75mm in a single pass. Greater thicknesses can be applied but should be laid wet on wet with each layer being sufficiently compacted prior to laying another pass. When applying another layer to a layer which has set, it should first be primed with Streetscape PS. Freshly laid areas should be protected from foot traffic for a minimum of 12 hours and from vehicle traffic for a minimum of 24 hours dependent on temperature and site conditions.

RESTRICTIONS

Streetscape FBC should not be used in unbound or flexible constructions. Streetscape FBC should only be used in bound/rigid constructions. In adverse weather conditions, paving should not be laid or jointed if the temperature is below 3°C on a falling temperature or below 1°C on a rising thermometer. The surface of the substrate should not be frozen before bedding and fresh bedding should be protected from inclement weather or freezing until sufficient strength is achieved for damage not to occur. Movement joints may be required in rigid/bound constructions and should be laid out in the design stage.

QUALITY

This product is manufactured in a plant controlled under an integrated management system third party certified to BS EN ISO 9001 and BS EN ISO 14001.

STREETSCAPE FJM RAPID



Larsen Streetscape FJM RAPID is a fast setting flowing jointing grout mortar specifically designed to meet the recommended performance characteristics of BS7533 and is designed to allow early trafficking. It is manufactured from a controlled blend of specially selected aggregates, cements and additives and only requires the addition of water to produce a high quality grouting mortar for rigid or bound construction methods. Streetscape FJM RAPID is ideal for the installation of natural stone setts and cobbles, flags, concrete and clay pavers.

>40MPa COMPRESSIVE STRENGTH

5 – 50mm JOINT WIDTHS

UP TO 200mm JOINT DEPTHS

LOW SHRINKAGE

FROST RESISTANT

CONFORMS TO BS 7533



TECHNICAL INFORMATION

PRODUCT INFORMATION	
FORM	Granular
COLOUR	Grey, Charcoal, Buff, Black
MAX AGGREGATE	3 mm
HAZARD INFORMATION:	Contains cement. Consult Safety Datasheet before use
CLEANING:	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set.
PACKAGING:	25 kg multilayer paper
STORAGE INSTRUCTIONS:	Store unopened containers in a dark, cool, dry location away from extremes of temperature
SHELF LIFE:	Minimum 6 months in unopened manufacturer's containers
APPLICATION INFORMATION	
WATER DEMAND	4.5 to 5.0L per 25kg
APPLICATION TEMPERATURE	+3°C to +30°C
WORKING TIME	Approx. 10-15 minutes
JOINT DIMENSIONS	5 – 50mm width / up to 200mm depth
TIME TO TRAFFIC	Light Foot Traffic - after 1 hours Vehicle Traffic - after 4-6 hours (depending on site conditions)
YIELD	13.6L per 25kg
TYPICAL PERFORMANCE INFORMATION	
*Independent Third Party Test Results – reports available on request	
DRY HARDENED DENSITY	2100kg/m ³
SHRINKAGE	0.02%
COMPRESSIVE STRENGTH	49.5 MPa
FLEXURAL STRENGTH	8.6 MPa
BOND STRENGTH	2.0 MPa
MODULUS OF ELASTICITY	21500 MPa

DIRECTIONS FOR USE

PREPARATION

The substrate and paving (including sub-base and road base) should meet the requirements of the relevant part of BS7533 dependent on the type and level of traffic. All joints must be suitable to receive the bedding as per current good working practices. All joints to be grouted should be clean and thoroughly sound and free from oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion. Thoroughly saturate the paving, joints, and bedding before grouting using plenty of water. Saturating the entire area will allow ease of cleaning, particularly with heavily textured or absorbent paving. Ensure paving is free from standing water or puddles before grouting. Construction movement joints should be laid out at the design stage and should not be filled with Streetscape FJM RAPID.

MIXING

Add 18 - 20% water, i.e. 4.5 - 5.0L of water per 25kg bag to achieve the desired workability without bleed. Mix with a suitable mechanical mixer for a minimum of 3 minutes. Please note Streetscape FJM RAPID is designed to be used as a fluid grout at the above water ratios. Where necessary, less water can be added. For example when laying to falls, but great care should be taken if adding more water to achieve a more pliable workability. When too much water is added there is a risk that the hardened properties of the product will be reduced and there will be a greater risk of settlement and bleed. Do not try to remix or wet-up FJM RAPID which has 'gone off'.

APPLICATION

Streetscape FJM RAPID can be applied in joint widths of 5 -50mm and up to 200mm deep in a single pass. Due to the fluid nature of Streetscape FJM RAPID, it is important to ensure there will be no escape of material from the area to be grouted into nearby drains, etc. The product can be applied by pouring from a watering can or similar along the joints or by flooding the entire area and working the product in the joints with a squeegee. Once the product has been applied, keep the area wet using a spray of water, never allow it to dry during the cleaning process. Allow FJM to firm up before attempting clean the face of the paving. This is carried out by spraying with water & using a squeegee or brush taking care not to wash material from the joints. Keep wetting and cleaning until all residue is removed from the surface. Due to the rapid setting characteristics, care should be taken not to allow the grout to dry out or harden on the surface of the paving particularly in warmer weather. Freshly grouted areas should be protected from foot traffic for a minimum of 1-2 hours and from vehicle traffic for a minimum of 4-6 hours dependent on temperature and site conditions.

RESTRICTIONS

Streetscape FJM RAPID should not be used in unbound or flexible constructions. Streetscape FJM RAPID should only be used in bound/rigid constructions. In adverse weather conditions, paving should not be laid or jointed if the temperature is below 3°C on a falling temperature or below 1°C on a rising thermometer. The surface of paving should not be frozen before grouting and fresh grout should be protected from inclement weather or freezing until sufficient strength is achieved for damage not to occur. Movement joints may be required in rigid/bound constructions and should be laid out in the design stage. The flooding application method should not be used with very porous paving blocks. Paving units should always be cleaned before Streetscape FJM RAPID has fully hardened. Hardened grout will be very difficult to remove from the surface of the paving units.

QUALITY

This product is manufactured in a plant controlled under an integrated management system third party certified to BS EN ISO 9001 and BS EN ISO 14001.

STREETSCAPE PS



Larsen Streetscape PS is a polymer modified cement based slurry specifically designed to meet the recommended performance characteristics of BS7533. It is manufactured from a controlled blend of specially selected aggregates, cements, and synthetic polymers and only requires the addition of water to produce a high quality priming slurry for use to improve bond strengths of natural stone setts and cobbles, flags, concrete and clay pavers to Larsen Streetscape FBC.

EASY TO USE
BRUSH APPLY
IMPROVES BOND
BS 7533



TECHNICAL INFORMATION

PRODUCT INFORMATION	
FORM	Granular
COLOUR	Grey
MAX AGGREGATE	1mm
HAZARD INFORMATION:	Contains cement. Consult Safety Datasheet before use
CLEANING:	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set.
PACKAGING:	25 kg multilayer paper
STORAGE INSTRUCTIONS:	Store unopened containers in a dark, cool, dry location away from extremes of temperature
SHELF LIFE:	Minimum 6 months in unopened manufacturer's containers
APPLICATION INFORMATION	
WATER DEMAND	Approx. 6.5L per 25kg
APPLICATION TEMPERATURE	+3°C to +30°C
WORKING TIME	Approx. 60 minutes
BED THICKNESS	1-2mm per pass
TIME TO TRAFFIC	Light Foot Traffic - after 12 hours Vehicle Traffic - after 1-2 days (depending on site conditions)
YIELD	25kg will cover approx. 19 sq. m
TYPICAL PERFORMANCE INFORMATION	
*Independent Third Party Test Results – reports available on request	
BOND STRENGTH	>2.0 MPa

DIRECTIONS FOR USE

PREPARATION

The substrate (including sub-base and road base) should meet the requirements of the relevant part of BS7533 dependent on the type and level of traffic. All substrates must be suitable to receive the bedding as per current good working practices. All substrates for bonded constructions should be clean and thoroughly sound and free from oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion. They should be pre-soaked but free from standing water.

PRIMING

To improve bond it is recommended to apply Larsen Streetscape PS to the base immediately prior to laying the Streetscape FBC bedding layer. All paving units must be primed with Streetscape PS immediately prior to placing on the Streetscape FBC bedding layer. Consult Larsen Streetscape PS datasheet and the relevant part of BS7533 for further information.

MIXING

Add ~26% water, i.e. approx. 6.5 L of water per 25kg bag to achieve the desired workability. Mix with a suitable mechanical mixer for a minimum of 3 minutes. Please note Streetscape PS is designed to be used at a semi-fluid consistency at the above water ratios. If more water is added, the hardened properties of the product will be reduced. Do not try to remix or wet-up PS which has 'gone off'.

APPLICATION

Streetscape PS can be applied by stiff brush at a thickness of 1-2mm. When priming the base, the priming slurry should be fresh and wet when the Streetscape FBC is applied. When priming paving slabs, this should take place immediately prior to their placement on the Streetscape FBC bedding layer.

RESTRICTIONS

Streetscape PS should not be used in unbound or flexible constructions. Streetscape PS should only be used in bound/rigid constructions. In adverse weather conditions, paving should not be laid or jointed if the temperature is below 3°C on a falling temperature or below 1°C on a rising thermometer. The surface of paving or substrate should not be frozen before priming and fresh primer should be protected from inclement weather or freezing until sufficient strength is achieved for damage not to occur. Movement joints may be required in rigid/bound constructions and should be laid out in the design stage.

QUALITY

This product is manufactured in a plant controlled under an integrated management system third party certified to BS EN ISO 9001 and BS EN ISO 14001.